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UTILITY	Attorne	Attorney Docket No. MAT-8444				
PATENT APPLICATION	First Inventor		Masato Ukena			
TRANSMITTAL	Title	ARRAY ANTENNA APPARAT DISTORTION COMPENSATION				

Attorney Docket No.			MAT-8444US			
First In	ventor	Ma	sato Ukena	- 11		
Title			ENNA APPARATUS UTILIZING A NONLINEAR COMPENSATION CIRCUIT	S.		

(Only for new nonprovisional applications under 37 C.F.R. 1.53(b)) Express Mail Label No. EV 351885600 US Commissioner for Patents APPLICATION ELEMENTS Mail Stop Patent Application ADDRESS TO: P.O. Box 1450 See MPEP chapter 600 concerning utility patent application contents. Alexandria, VA 22313-1450 7. CD-ROM or CD-R in duplicate, large table or 1. 🔯 Fee Transmittal Form (e.g., PTO/SB/17) Computer Program (Appendix) (Submit an original and a duplicate for fee processing 8. Nucleotide and/or Amino Acid Sequence Submission 2. Applicant claims small entity status. (if applicable, all necessary) See 37 CFR 1.27. a. Computer Readable Form (CRF) 3. 🔯 Specification (Total Pages 41 b. Specification Sequence Listing on: (preferred arrangement set forth below CD-ROM or CD-R (2 copies); or - Descriptive title of the Invention ii. 🔲 paper Cross References to Related Applications - Statement Regarding Fed sponsored R & D c.

Statements verifying identity of above copies - Reference to sequence listing, a table or a computer program listing appendix ACCOMPANYING APPLICATIONS PARTS - Background of the Invention Assignment Papers (cover sheet & document(s)) - Brief Summary of the Invention - Brief Description of the Drawings (if filed) 10. 37 C.F.R.§3.73(b) Statement □ Power of - Detailed Description (when there is an assignee) Attorney - Claim(s) - Abstract of the Disclosure 11. English Translation Document (if applicable) 4. Drawing(s) (35 U.S.C.113) [Total Sheets 16] 12. Information Disclosure □ Copies of IDS Statement (IDS)/PTO-1449 Citations 5. Oath or Declaration [Total Pages 3 13. Preliminary Amendment a. Newly executed (original or copy) b. Copy from a prior application (37 CFR 1.63 (d)) Return Receipt Postcard (MPEP 503) (for a continuation/divisional with Box 18 completed) (Should be specifically itemized) i. DELETION OF INVENTOR(S) 15. Certified Copy of Priority Document(s) Signed statement attached deleting inventor(s) (if foreign priority is claimed) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). 16. Nonpublication Request under 35 U.S.C. 122 c.

Unexecuted Declaration (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. 6. Application Data Sheet. See 37 CFR 1.76 17. Other: Certificate of Express Mail 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: ☐ Continuation Divisional ☐ Continuation-in-part (CIP) of prior application No: ___ Group / Art Unit: Prior application information Examiner For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disciosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS 23122 OR Correspondence address below Lawrence E. Ashery Name RatnerPrestia P. O. Box 980 Address City Valley Forge State PA Zip Code 19482 Country Telephone (610) 407-0700 Fax (610) 407-0701 Name (Print/Type) Registration No. (Attorney/Agent) Layvrence E. Ashery 34,515 Signature Date August 6, 2003

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take /2 minutes to complete, including gathering, preparing, and submitting the completed epplication form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestion for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 223/3-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Mail Stop Patent Application, P.O. Box 1450, Alexandria, VA 223/13-1450.

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PTO/SB/17 (05-03) (AW 07/03)
Approved for use through 04/30/2003. OMB 0651-0032
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FEE TRANSMITTAL C mplete if Kn wn							
	Application Number To Be Assigned						
for FY 2003	Filing Date At			Au	ugust 6, 2003		
Effective 01/01/2003. Patent fees are subject to annual revision.	First Named Inventor Masato Ukena						
			Examiner Name				
Applicant claims small entity status. See 37 CFR 1.27	Art Unit						
TOTAL AMOUNT OF PAYMENT (\$) 834	Attorney Docket No. MAT-8444US						
METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)						
☐ Check ☐ Credit Card ☐ Money ☐ Other ☐ None	3. ADDITIONAL FEES						
Order Deposit Account:	Fee	Entity Fee	Small E	Fee	Fee D	escription	Fee
	1051	(\$) 130	Code 2051	(\$) 65		•	Paid
Deposit Account 18-0350 Number	1052	50	2052	25	Surcharge - late fillr	ovisional filing fee or	
Deposit					cover sheet.		
Account RatnerPrestia	1053	130	1053	130	Non-English specific		
The Commissioner is authorized to: (check all that apply) Charge fee(s) indicated below	1812	2,520 920*	1	2,520 920°	For filing a request for a Requesting publicat		
☐ Credit any overpayments	1		1		Examiner action	·	
Charge any additional fee(s) during the pendency of this application Charge fee(s) indicated below, except for the filing fee to the	1805	1,840°	1805 1	,840*	Requesting publicat Examiner action	tion of SIR after	
above-identified deposit account.	1251	110	2251	55	Extension for reply	within first month	
FEE CALCULATION	1252	410	2252	205	Extension for reply	within second month	
1. BASIC FILING FEE	1253	930	2253	465	Extension for reply	within third month	
Large Entity Small Entity	1254	1,450	2254	725	Extension for reply	within fourth month	
Fee Fee Fee Fee Description Code (\$) Code (\$) Fee Paid	1255	1,970	2255	985	Extension for reply	within fifth month	
1001 750 2001 375 Utility filing fee 750	1401	320	2401	160	Notice of Appeal		
1002 330 2002 165 Design filing fee 1003 520 2003 260 Plant filing fee	1402	320	2402	160	Filing a brief in supp	port of an appeal	
1003 520 2003 260 Plant filing fee 1004 750 2004 375 Reissue filing fee	1403	280	2403	140	Request for oral hearing		
1005 160 2005 80 Provisional filling fee	1451	1,510	1451	1,510 Petition to institute a public use proceeding			ing
SUBTOTAL (1) (\$) 750	1452	110	2452	55	Petition to revive - I		
	1453	1,300	2453	650	Petition to revive - unintentional		
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE Extra Fee from Fee	1501	1,300	2501	650	Utility issue fee (or I	reissue)	
Total Claims 19 -20** = 0 X = 0	1502	470	2502	235	Design issue fee		
Independent 4 3** 4	1503	630	2503	315	Plant issue fee		
Craims	1460	130	1460	130	Petitions to the Commissioner		
Multiple Dependent X = 0	1807	50	1807	50	Processing fee unde	er 37 CFR 1.17(q)	
Large Entity Small Entity	1806	180	1806	180	Submission of Inform	mation Disclosure S	mt
Fee Fee Fee Fee Description Code (\$) Code (\$)	8021	40	8021	40	Recording each patent assignment per		
1202 18 2202 9 Claims in excess of 20	1809	750	2809	375	property (times num Filing a submission	iber of properties) after final rejection (37
1201 84 2201 42 Independent claims in excess of 3 1203 280 2203 140 Multiple dependent claim, if not paid	1810	750	2810	375	CFR § 1.129(a)) For each additional	Invention to be	
** Paissus independent claims over	10.0	700	2010	5.5	examined (37 CFR		
1204 64 2204 42 original patent	1801	750	2801	375	Request for Continue	d Examination (RCE)	
1205 18 2205 9 ** Relssue claims in excess of 20 and over original patent	1802	900	1802	900	OO Request for expedited examination of a design application		
SUBTOTAL (2) (\$) 84	Other	fee (spe	cify)				
**or number previously paid, if greater; For Reissues, see above	*Redu	iced by	Basic Filir	ng Fee	Paid SUBTO	OTAL (3) (\$) 0	
							
SUBMITTED BY Complete (if applicable)							
Name (Print/Type) Awrence E. Ashery Registration to. Attorney Agent) 34,					Telephone	(610) 407-0700	

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CERTIFICATE OF MAI	Docket No.						
Applicant(s): M. Ukena et	MAT-8444US						
Serial No.	Filing Date	Examiner	Group Art Unit				
To Be Assigned	August 6, 2003						
Invention: ARRAY ANTENNA APPARATUS UTILIZING A NONLINEAR DISTORTION COMPENSATOR CIRCUIT							
I hereby certify that the fo	illowing correspondence:						
	IAL APPLICATION AND ITS	ENCLOSURES					
		correspondence)					
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		Kathleen Libby					
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		(Signature of Pars	on Mailing Correspondence				
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